

In the Claims:

Amend Claim 1.

1-8. (Canceled).

9. (New). A gas friction pump, comprising stationary (6) and rotatable (5), secured on a rotatable rotor shaft (4), pump-active elements, wherein the rotor shaft (4) and the rotatable pump-active elements (5) form components of the rotor, and the rotor shaft (4) is supported by two, spaced from each other, radial bearings (8, 9), of which one is located closer to a gravity center of the rotor than the other, and an axial bearing (16), and wherein the radial bearing (9), which is located closer to the gravity center of the rotor, is formed as a gas bearing, and another radial bearing (8) is formed as a non-gas bearing.

10. (New). A gas friction pump according to claim 9, wherein the another bearing (9) is a ball bearing.

11. (New). A gas friction pump according to claim 9, wherein sealing means (1) is provided between the gas bearing and a gas outlet region (20).